

LCD Driver 3.3V/5V 15-Pin DSBGA T/R

Manufacturer: [Texas Instruments, Inc](#)

Package/Case: DSBGA15

Product Type: Optoelectronics

RoHS: RoHS Compliant/Lead free 

Lifecycle: Active

TPS65132B2YFFR Image

Images are for reference only

[Inquiry](#)

General Description

The TPS65132 family is designed to supply positive/negative driven applications. The device uses a single inductor scheme for both outputs to provide the user smallest solution size, a small bill-of-material as well as high efficiency. The devices offer best line and load regulation at low noise. With its input voltage range of 2.5 V to 5.5 V, it is optimized for products powered by single-cell batteries (Li-Ion, Ni-Li, Li-Polymer) and fixed 3.3-V and 5-V rails. The TPS656132 family provides 80 mA and 150 mA output current options with programmability to 40 mA. There are both CSP and QFN package options available.

Key Features

Input Voltage Range: 2.5 V to 5.5 V

VPOS Boost Converter: 4 V to 6 V (0.1-V step)

VNEG Inverting Buck-Boost Converter: -6 V to -4 V (0.1-V step)

Maximum Output Current: 80 mA or 150 mA

Outstanding Combined Efficiency

> 85% at IO_{UT} > 10 mA

> 90% at IO_{UT} > 40 mA

Excellent Performance

Outstanding Transient Response

1% Output Voltage Accuracy over Full Temperature Range

I2C Interface

Programmable Power-Up / -Down Sequencing Options

Flexible Output Voltage Programming

Programmable Active Output Discharge

> 1000x Programmable Non-Volatile Memory

Under-Voltage Lock-Out and Thermal Protection

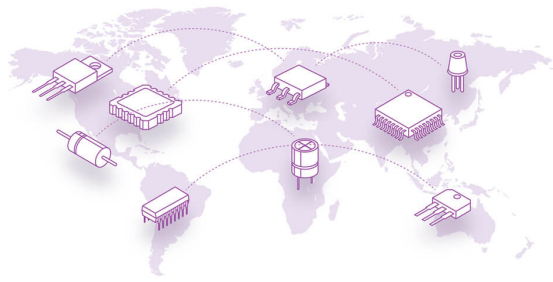
Two Package Options

15-Ball CSP Package

20-Pins QFN Package

Description

The TPS65132 family is designed to supply positive/negative driven applications. The device uses a single inductor scheme for both outputs to provide the user smallest solution size, a small bill-of-material as well as high efficiency. The devices offer best line and load regulation at low noise. With its input voltage range of 2.5 V to 5.5 V, it is optimized for products powered by single-cell batteries (Li-Ion, Ni-Li, Li-Polymer) and fixed 3.3-V and 5-V rails. The TPS656132 family provides 80 mA and 150 mA output current options with programmability to 40 mA. There are both CSP and QFN package options available.



Recommended For You

TPS61196PWPRQ1

Texas Instruments, Inc
HTSSOP28

TPS92391RHBR

Texas Instruments, Inc
VQFN32

TLC591161TPWRQ1

Texas Instruments, Inc
TSSOP28

TPS92692QPWPTQ1

Texas Instruments, Inc
HTSSOP20

TPS92691PWP

Texas Instruments, Inc
HTSSOP-16

TPS92691PWPR

Texas Instruments, Inc
HTSSOP16

TPS92633QPWPRQ1

Texas Instruments, Inc
HTSSOP20

TPS61161QDRVRQ1

Texas Instruments, Inc
WSO-6

TPS61194PWPRQ1

Texas Instruments, Inc
HTSSOP20

TPS92520QDADRQ1

Texas Instruments, Inc
HTSSOP32

TPS92630QPWPRQ1

Texas Instruments, Inc
HTSSOP16

TPS92691QPWPRQ1

Texas Instruments, Inc
HTSSOP-16

TPS92692QPWPRQ1

Texas Instruments, Inc
HTSSOP-20

TPS65132SYFFR

Texas Instruments, Inc
DSBGA-15

TPS92601BQPWPRQ1

Texas Instruments, Inc
HTSSOP-20